

Lista de lucrări

NUMELE ȘI PRENUMELE: JAKAB-FARKAS László

A. Teza de doctorat.

CERCETĂRI PRIVIND OBTINEREA ȘI CARACTERIZAREA STRATURILOR SUBȚIRI FUNCȚIONALE NANOSTRUCTURATE PE BAZĂ DE Ti-Al-Si-N;

Conducător Prof. Dr. ing. Ioan Vida-Simiti;

Instituția: Universitatea Tehnică din Cluj-Napoca;

Calificativ: Foarte bine;

C. Lucrări științifice publicate

C1. Lucrări științifice publicate în reviste cotate ISI

1. E. Domokos, B. Bíró-Janka, J. Bálint, K. Molnár, Cs. Fazakas, **L. Jakab-Farkas**, J. Domokos, Cs. Albert, Gy. Mara, A. Balog: Arbuscular Mycorrhizal Fungus Rhizophagus irregularis Influences Artemisia annua Plant Parameters and Artemisinin Content under Different Soil Types and Cultivation Methods. Microorganisms. (2020).
2. D. Feldiorean, D. Cristea, M. Tierean, C. Croitoru, C. Gabor, **L. Jakab-Farkas**, L. Cunha, N.P. Barradas, E. Alves, V. Craciun, A. Marin, C. Moura, J. Leme, M. Socol, D. Craciun, M. Cosnita, and D. Munteanu: *Deposition temperature influence on the wear behaviour of carbon-based coatings deposited on hardened steel*. Applied Surface Science.(2019).
3. E. Domokos, **L. Jakab-Farkas**, B. Darkó, B. Bíró-Janka, Gy. Mara, Cs. Albert and A. Balog: "Increase in Artemisia annua Plant Biomass Artemisinin Content and Guaiacol Peroxidase Activity Using the Arbuscular Mycorrhizal Fungus Rhizophagus irregularis", Frontiers in Plant Science, vol. 9, pp. 1-9, 2018
4. **L. Jakab-Farkas**, D. Biro, G. Strnad and I. Vida-Simiti: "Preparation and characterization of (Ti, Al, Si)N coatings developed by d.c. reactive magnetron sputtering", Journal of Optoelectronics and Advanced Materials, vol. 15, pp. 696-702, 2013
5. D Biro, **L. Jakab-Farkas**, G Strnad, V Bolos and I Vida-Simiti: "Effect of nitrogen concentration on microstructure and microhardness of nanostructured (Ti, Al, Si) N coatings developed by dc reactive magnetron sputtering", Journal of Optoelectronics and Advanced Materials, vol. 13, pp. 859, 2011

C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale (indicați și baza de date).

1. N-A Coman, Lavinia Berta, Alexandra Nicolae-Maranciuc, Alexandru Nicolescu, Mihai Babotă, Adrian Man, Dan Chicea, Lenard Farczadi, **László Jakab-Farkas**, Corneliu Tanase: Green synthesis of platinum nanoparticles using aqueous bark extract of Quercus sp. for potential antioxidant and antimicrobial applications, BioResources, (2024)
2. Năstaca-Alina Coman, Alexandra Nicolae-Maranciuc, Lavinia Berța, Alexandru Nicolescu, Mihai Babotă, Adrian Man, Dan Chicea, Lenard Farczadi, **László Jakab-Farkas**, Barbara Silva, Jéssica Veiga-Matos, Corneliu Tanase: Green Synthesis of Metallic Nanoparticles from Quercus Bark Extracts: Characterization and Functional Properties, Antioxidants, (2023)
3. Zöld, Eszter Laczkó; Koreh, Beáta; **Jakab-Farkas, László**; Domokos, Erzsébet: Analysis of pollen in "handmade" honey samples from the central microregion of Romania by scanning electron microscopy, Planta Medica. (2023)
4. G Strnad, **L Jakab-Farkas**, FS Gobber, I Peter: Synthesis and Characterization of Nanostructured Oxide Layers on Ti-Nb-Zr-Ta and Ti-Nb-Zr-Fe Biomedical Alloys. Journal of Functional Biomaterials 14 (4), 180, 2023
5. **L. Jakab-Farkas**, A. Kelemen, A.-Zs. Fekete, G. Strnad, S. Papp, I. Vida-Simiti and D. Biró: "Some remarks on the ternary TiAlSiN thin films developed under specific conditions", Acta technica napocensis- Series: Applied Mathematics, Mechanics, and Engineering, vol. 61, pp. 131-136, 2018 (inclusă în baza de date: Thomson Reuters Emerging Sources Citation Index, Index Copernicus, OCLC WorldCat)
6. A. Zs. Fekete and **L. Jakab-Farkas**: "Development of a pressure measuring unit based on a thermal conductivity gauge and a low cost embedded solution for mid-range vacuum applications", Papers On Technical Science, vol. 9, pp. 79-82, 2018 (inclusă în baza de date: de GRUYTER in progress)
7. L. Kenéz, N. Kutasi, E. Filep, **L. Jakab-Farkas** and L. Ferencz: "Anodic Plasma Nitriding in Hollow Cathode (HCAPN)", HTM Journal of Heat Treatment and Materials, vol. 73, pp. 96-105, 2018 (inclusă în baza de date: Thomson Reuters Emerging Sources Citation Index, SCOPUS, HANSER)
8. A. Zs. Fekete, A. Kelemen and **L. Jakab-Farkas**: "Multilevel Distributed Embedded System for Control of the DC Magnetron Sputtering Process", Acta Universitatis Sapientiae-Electrical and Mechanical Engineering, vol. 9, pp. 43, 2017 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))
9. A. Kelemen, D. Biró, A.-Zs. Fekete, **L. Jakab-Farkas** and R.R. Madarász: "Macroscopic Thin Film Deposition Model for the Two-Reactive-Gas Sputtering Process", Acta Universitatis Sapientiae-Electrical and Mechanical Engineering, vol. 8, pp. 62, 2016 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))
10. G. Strnad, **L. Jakab-Farkas** and D. Portan: "Current-time dependence in self-organized TiO₂ layers synthesis by electrochemical anodization", Academic Journal of Manufacturing Engineering, vol. 14, pp. 112-118, 2016 (inclusă în baza de date: SCOPUS, SCIENTIFIC.NET)
11. L. Kenéz, N. Kutasi, E. Filep, **L. Jakab-Farkas** and I.Á. Szöcs: "Heat-Treatment of 16MnCr Steel in a Linear Non-Isotherm Plasma Reactor", Acta Universitatis Sapientiae-Electrical and Mechanical Engineering, vol. 5, pp. 61-72, 2013 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))
12. A.- Zs. Fekete, **L. Jakab-Farkas**, S. Papp and T.Cs. Balogh: "Dynamic Pressure Control in Reactive Sputtering Process", Acta Universitatis Sapientiae-Electrical and Mechanical

Engineering, vol. 4, pp. 33-44, 2012 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))

13. S. Papp, **L. Jakab-Farkas**, D. Biro and W. Szabo: "*Modeling and identification study of the variation of dynamic pressure in reactiv sputtering process*", Scientific Bulletin of the Petru Maior University of Targu Mures, vol. 8 (XXV), pp. 58-61, 2011 (inclusă în baza de date: EBSCO, Index Copernicus, Ulrich's Periodicals Directory, Google Academic, Directory of Research Journals Indexing (DRJI), Directory of Open Access Journals (DOAJ), ProQuest Engineering Journals, ProQuest Illustrata: Technology, ProQuest SciTech Journals, ProQuest Technology Journals)
14. K. György, A. Kelemen, S. Papp and **L. Jakab-Farkas**: "*Theoretical Study of the Gradient Method to Find the Optimal Control for the Reactive Sputtering Process*", Acta Universitatis Sapientiae-Electrical and Mechanical Engineering, vol. 3, pp. 2011 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))
15. **L. Jakab-Farkas**, S. Papp, G. Strnad, Gy. Sáfrán, I. Vida-Simiti and D. Biro: "*Preparation and study of nanostructured TiAlSiN thin films*", Scientific Bulletin of the Petru Maior University of Targu Mures, vol. 8 (XXV), pp. 200-205, 2011 (inclusă în baza de date: EBSCO, Index Copernicus, Ulrich's Periodicals Directory, Google Academic, Directory of Research Journals Indexing (DRJI), Directory of Open Access Journals (DOAJ), ProQuest Engineering Journals, ProQuest Illustrata: Technology, ProQuest SciTech Journals, ProQuest Technology Journals)
16. D. Biro, S. Papp and **L. Jakab-Farkas**: "*Microstructural Modification of (Ti1-xAlxSi)yN Thin Film Coatings as a Function of Nitrogen Concentration*", Acta Universitatis Sapientiae-Electrical and Mechanical Engineering, vol. 2, pp. 2010 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))
17. **L. Jakab-Farkas**, S. Papp and D. Biró: "Effect of n concentration on microstructure evolution of the nanostructured (Al, Ti, Si) n coatings prepared by D C. Reactive magnetron sputtering", Scientific Bulletin of the Petru Maior University of Targu Mures, vol. 6, pp. 173, 2009 (inclusă în baza de date: EBSCO, Index Copernicus, Ulrich's Periodicals Directory, Google Academic, Directory of Research Journals Indexing (DRJI), Directory of Open Access Journals (DOAJ), ProQuest Engineering Journals, ProQuest Illustrata: Technology, ProQuest SciTech Journals, ProQuest Technology Journals)

C3. Lucrări științifice publicate în reviste din străinătate (altele decât cele menționate anterior).

C4. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS/CNCS (altele decât cele din baze de date internaționale).

C5. Lucrări științifice publicate în reviste, altele decât cele menționate anterior

C6. Lucrări științifice publicate în volumele manifestărilor științifice

1. G. Strnad, Z. German-Sallo, **L. Jakab-Farkas**, R. Cazacu and D. Portan: "Effect of potential ramp in the potentiodynamic stage of anodization on morphology of nanostructured TiO₂ developed on Ti6Al4V alloy", in Proceedings of Procedia Manufacturing, vol. 22, pp. 19-26, 2018
2. A.-Zs. Fekete and **L. Jakab-Farkas**: "Development of a pressure measuring unit based on a thermal conductivity gauge and a low cost embedded solution for mid-range vacuum applications", in Proceedings of the XXIIIth International Scientific Conference of Young Engineers, vol. 9, pp. 79-82, 2018
3. G. Strnad, D. Portan, **L. Jakab-Farkas**, C. Petrovan and O. Russu: "*Morphology of Nanostructured TiO₂ Surfaces for Biomedical Implants Developed by Electrochemical Anodization*", in Proceedings of Materials Science Forum, vol. 907, pp. 91-98, 2017

4. G. Strnad, Z. German-Sallo, **L. Jakab-Farkas**, C. Petrovan and D. Portan: "*Influence of electrical parameters on morphology of nanostructured TiO₂ layers developed by electrochemical anodization*", in Proceedings of MATEC Web Conf., vol. 112, pp. 1-6, 2017
5. G. Strnad, **L. Jakab-Farkas**, C. Petrovan and O.M. Russu: "*Influence of Surface Preparation on Morphology of Self-organized Nanotubular Oxide Layers Developed on Ti6Al4V Alloy*", in Proceedings of Procedia Engineering, vol. 181, pp. 242-248, 2017
6. G. Strnad, R. Cazacu, P. Chetan, Z. German-Sallo and **L. Jakab-Farkas**: "*Optimized anodization setup for the growth of TiO₂ nanotubes on flat surfaces of titanium based materials*", in Proceedings of MATEC Web Conf., vol. 137, pp. 1-6, 2017
7. **L. Jakab-Farkas**, A. Kelemen, A.-Zs. Fekete, G. Strnad, S. Papp, I. Vida-Simiti and D. Biró: "*Some remarks on the ternary TiAlSiN thin films developed under specific conditions*", in Proceedings of the 5th International Conference on Powder Metallurgy and Advanced Materials, pp. 131-136, 2017
8. A.-Zs. Fekete, **L. Jakab-Farkas** and S. Papp: "*Development of an Embedded System for Processing Mass Spectrometry Measurements*", in Proceedings of The XVIth International Conference of Technical Sciences, vol. pp. 61-64, 2016
9. A.-Zs. Fekete and **L. Jakab-Farkas**: "*Development of an Embedded System for Accessing Mass Spectrometry Measurements through Ethernet Network*", in Proceedings of The XXIth International Scientific Conference of Young Engineers, pp. 161-164, 2016
10. G. Strnad, C. Petrovan, O. Russu and **L. Jakab-Farkas**: "*TiO₂ nanostructured surfaces for biomedical applications developed by electrochemical anodization*", in Proceedings of IOP Conference Series: Materials Science and Engineering, vol. 161, pp. 1-8, 2016
11. G. Strnad, N. Chirila and **L. Jakab-Farkas**: "*Effect of surface preparation and passivation treatment on surface topography of Ti6Al4V for dental implants*", in Proceedings of Applied Mechanics and Materials, vol. 809, pp. 513-518, 2015
12. A.-Zs. Fekete and **L. Jakab-Farkas**: "*Development of an Embedded Partial Pressure Measuring System for use in Reactive Sputtering System*", in Proceedings of The XVth International Conference of Technical Sciences, vol. pp. 87-90, 2015
13. N. Kutasi, L. Kenéz, E. Filep, I. Szöllösi and **L. Jakab-Farkas**: "*The Design of an Automated Plasma Diagnostic System – From Measurement to Signal Processing*", in Proceedings of Macro 2015, vol. 1, pp. 49, 2015
14. D. Biro, **L. Jakab-Farkas**, A. Kelemen, S. Papp, M.F. Hasaneen, M. Menyhard, S. Gurban and P.B. Barna: "*Effect of Oxygen Doping on the Structure of TiN Surface Coatings*", in Proceedings of the 5th International Conference on Recent Achievements in Mechatronics, Automation, Computer Sciences and Robotics 2015, vol. 1, pp. 315-324, 2015
15. G. Strnad, **L. Jakab-Farkas**: "*Improving the Accuracy of Low-load Vickers Microhardness Testing of Hard Thin Films*", in Proceedings of Procedia Technology, vol. 12, pp. 289-294, 2014
16. G. Strnad, **L. Jakab-Farkas**, S. Papp, A.- Zs. Fekete, D. Biro and I. Vida-Simiti: "*Optimization of reactive sputtering technology for hard coatings deposition*", in Proceedings of Applied Mechanics and Materials, vol. 657, pp. 246-250, 2014
17. S. Papp, A. Kelemen, **L. Jakab-Farkas**, I. Vida-Simiti and D. Biro: "*Multilayered nanocrystalline CrN/TiAlN/MoS₂ tribological thin film coatings: preparation and characterization*", in Proceedings of IOP Conference Series: Materials Science and Engineering, vol. 47, pp. 12-16, 2013
18. S. Papp, **L. Jakab-Farkas** and D. Biro: "*Langmuir probe measurements in a magnetron sputtering system*", in Proceedings of The XVII-th International Scientific Conference of Young Engineers, pp. 267-270, 2012
19. S. Papp, K. György, A. Kelemen and **L. Jakab-Farkas**: "*Applying the Extended and Unscented Kalman Filters for Nonlinear State Estimation*", in Proceedings of the 6th International Conference INTER-ENG 2012, Interdisciplinarity in Engineering, vol. 1, pp. 233-239, 2012

- 20.S. Papp, **L. Jakab-Farkas**, D. Biro and W. Szabo: "Modeling and identification study of the variation of dynamic pressure in reactive sputtering process", in Proceedings of The International Conference Interdisciplinarity in Engineering INTER-ENG, vol. pp. 16, 2011
- 21.**L. Jakab-Farkas**, S. Papp, G. Strnad, Gy. Safran, I. Vida-Simiti and D. Biro: "Preparation and Study of Nanostructured TiAlSiN Thin Films", in Proceedings of the 5th International Conference Interdisciplinarity in Engineering INTER-ENG, pp. 200, 2011
- 22.D. Biro, S. Papp and **L. Jakab-Farkas**: "Microstructural Modification of $(Ti_{1-x}Al_xSi_y)_N$ Thin Film Coatings as a Function of Nitrogen Concentration", in Proceedings of the 2nd Conference on Recent Achievements in Mechatronics, Automation, Computer Sciences and Robotics (MACRo2010), pp. 199-207, 2010
- 23.**L. Jakab-Farkas**, S. Papp and D. Biró: "Effect of n concentration on microstructure evolution of the nanostructured (Al, Ti, Si) n coatings prepared by D C. Reactive magnetron sputtering", in Proceedings of the 4th edition of the Interdisciplinarity in Engineering International Conference pp. 261, 2009

D. Traduceri de cărți, capitole de cărți, alte lucrări științifice

E. Editare, coordonare de volume

F. Brevete de invenții și alte titluri de proprietate

G. Contracte de cercetare (menționați calitatea de director sau membru)

Nr. crt.	Denumirea Temei	Beneficiar	Perioada	Calitate
1.	Obținerea și cercetarea structurii microscopice prin procedurile TEM și XTEM a straturilor subțiri, rezistente la uzură	Institutul Programelor de Cercetare al Fundației Sapientia	2005-2006	Membru echipă
2.	Obținerea și investigarea microstructurală a straturilor subțiri tribologice de compoziție TiAlSiN	Institutul Programelor de Cercetare al Fundației Sapientia	2011	Membru echipă
3.	Influenta oxigenului asupra mecanismului de formare a structurii straturilor subțiri TiN	Academia din Ungaria 2010C00253CS	2013	Membru echipă
4.	Obținerea și caracterizarea prin microscopie electronică a straturilor TiOxNy realizate cu parametri predefiniți în vederea elucidării mecanismului de tranziție a texturii preferențiale.	Academia din Ungaria 37/6865	2014-2015	Membru echipă
5.	Tehnologie optimizată de anodizare electrochimică pentru dezvoltarea acoperirilor nanostructurate pe bază de TiO ₂ pe suprafețele complexe ale implanturilor biomedicale	Unitatea Executivă pentru Finanțarea Învățământului Superior PN-III-P2-2.1-PED-2016-0142	2015-2017	Membru echipă

H. Creația artistică

H1 Participări la manifestații artistice internaționale

H2. Participări la manifestații artistice naționale

H3. Expoziții, filme, spectacole, concerte, discuri de autor, opere internaționale

H4. Expoziții, filme, spectacole, concerte, discuri de autor, opere naționale

H5. Produse cu drept de proprietate intelectuală în domeniul artistic

III. RECUNOAȘTEREA

I. Premii, distincții.

J. Citări

la C1.1

1. A. Flavio: Study of the growth, artemisinin production and leaf volatilome of some micropropagated *Artemisia annua* clones inoculated or not with beneficial soil microorganisms. Phd thesis, Universita del Piemonte Orientale

la C1.2

1. X Li, L He, Y Li, Q Yang: Diamond deposition on iron and steel substrates: A review, *Micromachines*, 2020
2. S.A. Afolalu, S. Oladipupo, M.E. Bose, A.A. Abioye, S.B. Adejuyigbe, O.O. Ajayi and S.O. Ongbali: Agro waste A sustainable source for steel reinforcement-review, *Journal of Physics: Conference Series*, 2019
3. DI Lebedev: Elemental Distribution of Gas-Thermal Coatings with W and Ta Modifiers - *Materials Science Forum*, 2020
4. A.W. Zia, M. Birkett: Deposition of diamond-like carbon coatings: Conventional to non-conventional approaches for emerging markets - *Ceramics International*, 2021
5. C.D.Boeira, L.M.Leidens, A.F.Michels, R. Serra, M. Evaristo, F. Fernandes, A.Cavaleiro, C.A.Figueroa: Influence of base pressure prior to deposition on the adhesion behaviour of carbon thin films on steel - *Applied Surface Science Advances*, 2020 - Elsevier
6. R.T. Brzhanov, G. Bulekbayeva: Rolling of a weld pad on a flat surface. One-dimensional problem - *IOP Conference Series: Materials Science and Engineering*, 2020 - iopscience.iop.org la C1.3

la C1.3

1. Takacs, T., Cseresnyes, I., Kovacs, R., Paradi, I., Kelemen, B., Szili-Kovacs, T. and Fuzy, A.: "Symbiotic Effectivity of Dual and Tripartite Associations on Soybean (*Glycine max* L. Merr.) Cultivars Inoculated With *Bradyrhizobium japonicum* and AM Fungi". *Frontiers in Plant Science*. 9: 14.(2018).
2. O. Peterfi, E. Domokos: "Mutualistic and Endophytic microorganisms of *Artemisia Annua*: Description, role and use" *Acta Biologica Marisiensis* 5-21, 2018

la C1.3

3. Jokanovic, V., Holovic, B., Nenadovic, M., Petkoska, A. T., Mitric, M., Jokanovic, B. and Nasov, I.: Ultra-High and Near-Zero Refractive Indices of Magnetron Sputtered Thin-Film Metamaterials Based on Ti_xO_y . *Advances in Materials Science and Engineering*: 9.(2016)
4. Ravi, N., Markandeya, R. and Joshi, S. V.: Effect of nitrogen pressure on mechanical properties of nc-TiAlN/ a-Si₃N₄ nanocomposite coatings deposited by cathodic arc PVD process. *Materials Today-Proceedings*. 3: 3002-3011.(2016)
5. Das, P., Anwar, S., Bajpai, S. and Anwar, S.: Structural and mechanical evolution of TiAlSiN nanocomposite coating under influence of Si₃N₄ power. *Surface & Coatings Technology*. 307: 676-682.(2016).

la C1.4

1. Jakab-Farkas, L., Kelemen, A., Fekete, A.-Zs., Strnad, G., Papp, S., Vida-Simiti, I. and Biró, D.: *Some remarks on the ternary TiAlSiN thin films developed under specific conditions*. *Acta technica napocensis- Series: Applied Mathematics, Mechanics, and Engineering*. 61: 131-136.(2018).

2. Papp, S., Kelemen, A., Jakab-Farkas, L., Vida-Simiti, I. and Biro, D.: *Multilayered nanocrystalline CrN/TiAlN/MoS₂ tribological thin film coatings: preparation and characterization*. IOP Conference Series: Materials Science and Engineering. 47: 12-16.(2013).
3. Sobol, V., Andreev, A. A., Mygushchenko, R. P., Stolbovoy, V. A., Postelnyk, A. A., Meylekhov, A. A., Dolomanov, A. V. and Rebrova, Y. M.: *THE EFFECT OF THE SUBSTRATE POTENTIAL DURING DEPOSITION ON THE STRUCTURE AND PROPERTIES OF THE BINANOLAYER MULTIPERIOD COMPOSITES (TiAlSi)N/MeN (Me - Zr, Nb, Cr, Mo)*. Problems of Atomic Science and Technology: 173-180.(2018).
4. Hasaneen, M. F., Biro, D., Szekely, L., Nemes-Incze, R. and Barna, P. B.: *Substructure in the columnar crystals of the Ti_{0.45}O_{0.20}N_{0.35} oxynitride thin film*. Vacuum. 86: 2105-2108.(2012).
5. Sobol, OV, Andreev, AA, Mygushchenko, RP, Stolbovoy, VA, Postelnyk, AA, Meylekhov, AA, Dolomanov, AV and Rebrova, Ye M: The effect of the substrate potential during deposition on the structure and properties of the binanolayer multiperiod composites (TiAlSi) N/MeN (Me–Zr, Nb, Cr, Mo). Вопросы атомной науки и техники.(2018)
6. Jakab-Farkas, Laszlo, Papp, Sandor, Strnad, Gabriela, Safran, Gyorgy, Vida-Simiti, Ioan and Biro, Dominic: Preparation and Study of Nanostructured TiAlSiN Thin Films. The International Conference Interdisciplinarity in Engineering INTER-ENG, Editura Universitatii" Petru Maior" din Tirgu Mures: 200.(2011).

la C2.5

1. Madarász, Róbert Rossi, András Kelemen, and Albert-Zsombor Fekete. "Plasma ignition and current control considerations for magnetron sputtering power supplies." *2018 International IEEE Conference and Workshop in Óbuda on Electrical and Power Engineering (CANDO-EPE)*. IEEE, 2018.

la C2.6

1. Strnad, Gabriela, et al. "Effect of phosphate/fluoride electrolytes on mass and dimensional stability of anodization bath manufactured by FDM." *MATEC Web of Conferences*. Vol. 137. EDP Sciences, 2017.
2. Strnad, Gabriela, et al. "Optimized anodization setup for the growth of TiO₂ nanotubes on flat surfaces of titanium based materials." *MATEC Web of Conferences*. Vol. 137. EDP Sciences, 2017.

la C6.3

1. Strnad, G., Cazacu, R., Chetan, P., Florea, A. S. G., & Peti, F. (2017). Effect of phosphate/fluoride electrolytes on mass and dimensional stability of anodization bath manufactured by FDM. In *MATEC Web of Conferences* (Vol. 137, p. 02012). EDP Sciences.

la C6.4

1. Strnad, G., Cazacu, R., Chetan, P., Florea, A. S. G., & Peti, F. (2017). Effect of phosphate/fluoride electrolytes on mass and dimensional stability of anodization bath manufactured by FDM. In *MATEC Web of Conferences* (Vol. 137, p. 02012). EDP Sciences.

la C6.5

1. Strnad, G., Cazacu, R., Chetan, P., German-Sallo, Z. and Jakab-Farkas, L.: *Optimized anodization setup for the growth of TiO₂ nanotubes on flat surfaces of titanium based materials*. *MATEC Web Conf*. 137: 1-6.(2017).
2. Strnad, G., Cazacu, R., Chetan, P., Florea, A. S. G. and Peti, F.: *Effect of phosphate/fluoride electrolytes on mass and dimensional stability of anodization bath manufactured by FDM*. *Modern Technologies in Manufacturing*. N. Balç. Cedex A, E D P Sciences. 137.(2017).

la C6.10

1. Strnad, G., Cazacu, R., Chetan, P., Florea, A. S. G. and Peti, F.: Effect of phosphate/fluoride electrolytes on mass and dimensional stability of anodization bath manufactured by FDM. *Modern Technologies in Manufacturing*. N. Balci. Cedex A, E D P Sciences. 137.(2017).

la C6.11

1. Strnad, Gabriela, et al. "Contact angle measurement on medical implant titanium based biomaterials." *Procedia Technology* 22 (2016): 946-953.

la C6.15

1. Malau, Viktor and Arifudin, Latif: Vickers Microhardness Dependence Load and Determining of Tensile Strength of HQ 705 Steel from Microhardness Curves. *Applied Mechanics and Materials*, Trans Tech Publ. 842: 43-52.(2016)
2. Parmar, Ronaksinh: Characterization Of Fracture Toughness In Amorphous Diamond Like Carbon Thin Films And Coatings.(2015)
3. Mareš, Vratislav, Kraus, Martin and Podeprelova, Adela: The Effect of Applied Load on Hardness of Steels. *Materials Science Forum*, Trans Tech Publ. 891: 83-88.(2017)
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K. Alte realizări semnificative.

Iunie 2007 - stagiul de pregătire în domeniul tehnologiei de vid, Gesellschaft für Schwerionenforschung mbH (GSI), Ultra High Vacuum Department. – 2 sapt.

Iunie 2008 - stagiul de pregătire în domeniul tehnologiei de vid, Gesellschaft für Schwerionenforschung mbH (GSI), Ultra High Vacuum Department. – 1 sapt.

Iunie – August 2008 - stagiul de pregătire în domeniul acceleratoarelor liniare de particule, Tokyo Institute of Technology, Research Laboratory for Nuclear Engineering. – 5 sapt.

Data,
09.10.2025

Semnătura,

A handwritten signature in black ink, consisting of a large, stylized initial 'K' followed by a series of loops and a final horizontal stroke.